

Fire and oak scientific literature

Summarized by Mark Mackay, Michigan DNR, for [a 2016 field day](#) at Michigan State University's MacCready Reserve

Many of these publications are open access through the USDA Forest Service's [Northern Research Station](#).

[Arthur, M.A., Alexander, H.D., Dey, D.C., Schweitzer, C.J. and Loftis, D.L., 2012. Refining the oak-fire hypothesis for management of oak-dominated forests of the eastern United States. Journal of Forestry 110: 257-266.](#)

[Brandt, L., He, H., Iverson, L., Thompson, F.R., Butler, P., Handler, S., Janowiak, M., Shannon, P.D., Swanston, C., Albrecht, M. and Blume-Weaver, R., 2014. Central hardwoods ecosystem vulnerability assessment and synthesis: a report from the central hardwoods climate change response framework project. USDA Forest Service General Technical Report NRS-124.](#)

[Brose, P.H., Dey, D.C. and Waldrop, T.A., 2014. The fire—oak literature of eastern North America: synthesis and guidelines. USDA Forest Service General Technical Report NRS-135.](#)

[Brose, P., Schuler, T., Van Lear, D. and Berst, J., 2001. Bringing fire back: the changing regimes of the Appalachian mixed-oak forests. Journal of Forestry 99: 30-35.](#)

[Brose, P.H. and Van Lear, D.H., 1998. Responses of hardwood advance regeneration to seasonal prescribed fires in oak-dominated shelterwood stands. Canadian Journal of Forest Research 28: 331-339.](#)

[Brose, P., Van Lear, D. and Cooper, R., 1999. Using shelterwood harvests and prescribed fire to regenerate oak stands on productive upland sites. Forest Ecology and Management 113: 125-141.](#)

[Brose, P.H., Dey, D.C., Phillips, R.J. and Waldrop, T.A., 2013. A meta-analysis of the fire-oak hypothesis: does prescribed burning promote oak reproduction in eastern North America? Forest Science 59: 322-334.](#)

[Dey, D.C. and Fan, Z., 2009. A review of fire and oak regeneration and overstory recruitment. P. 2-20 in T.F. Hutchinson \(ed.\), Proceedings of the 3rd fire in eastern oak forests conference; 2008 May 20-22; Carbondale, IL. USDA Forest Service General Technical Report NRS-P-46.](#)

[Dey, D.C., Jacobs, D., McNabb, K., Miller, G., Baldwin, V. and Foster, G., 2008. Artificial regeneration of major oak \(Quercus\) species in the eastern United States—a review of the literature. Forest Science 54: 77-106.](#)

[Dey, D.C., 2014. Sustaining oak forests in eastern North America: Regeneration and recruitment, the pillars of sustainability. Forest Science 60: 926-942.](#)

[Dey, D.C., Royo, A.A., Brose, P.H., Hutchinson, T.F., Spetich, M.A. and Stoleson, S.H., 2010. An ecologically based approach to oak silviculture: a synthesis of 50 years of oak ecosystem research in North America. Colombia Forestal 13: 201-222.](#)

[Handler, S., Duveneck, M.J., Iverson, L., Peters, E., Scheller, R.M., Wythers, K.R., Brandt, L., Butler, P., Janowiak, M., Shannon, P.D. and Swanston, C., 2014. Michigan forest ecosystem vulnerability assessment and synthesis: a report from the Northwoods Climate Change Response Framework project. USDA Forest Service General Technical Report NRS-129.](#)

[Iverson, L.R., Prasad, A.M., Matthews, S.N. and Peters, M., 2008. Estimating potential habitat for 134 eastern US tree species under six climate scenarios. *Forest Ecology and Management* 254: 390-406.](#)

Iverson, Louis R.; Prasad, Anantha M.; Matthews, Stephen N.; Peters, Matthew P. 2011. [Lessons learned while integrating habitat, dispersal, disturbance, and life-history traits into species habitat models under climate change](#). *Ecosystems*. 14: 1005-1020.

[Janowiak, M.K., Swanston, C.W., Nagel, L.M., Brandt, L.A., Butler, P.R., Handler, S.D., Shannon, P.D., Iverson, L.R., Matthews, S.N., Prasad, A. and Peters, M.P., 2014. A practical approach for translating climate change adaptation principles into forest management actions. *Journal of Forestry* 112: 424-433.](#)

[Johnson, Shifley, and Rogers. The ecology and silviculture of oaks, 2nd edition by CABI. 2010.](#)

[Lee, J.G., and M.A. Kost. 2008. *Systematic evaluation of oak regeneration in Lower Michigan*. Report to the Michigan Department of Natural Resources Wildlife Division. Report Number 2008-13. Michigan Natural Features Inventory, Lansing, MI. 127 pp + appendices](#)

Matthews, Stephen N.; Iverson, Louis R.; Peters, Matthew P.; Prasad, Anantha M.; Subburayalu, Sakthi. 2014. [Assessing and comparing risk to climate changes among forested locations: implications for ecosystem services](#). *Landscape Ecology*. 29(2): 213-228.

Matthews, Stephen N.; Iverson, Louis R.; Prasad, Anantha M.; Peters, Matthew P.; Rodewald, Paul G. 2011. [Modifying climate change habitat models using tree species-specific assessments of model uncertainty and life history-factors](#). *Forest Ecology and Management*. 262: 1460-1472.

[Nowacki, G.J. and Abrams, M.D., 2008. The demise of fire and "mesophication" of forests in the eastern United States. *BioScience* 58: 123-138.](#)

[Nowacki, G., Ablutz, M., Yaussy, D., Schuler, T. and Dey, D., 2009. Restoring oak ecosystems on National Forest System lands in the Eastern Region: An adaptive management approach. P. 133-139 in T.F. Hutchinson \(ed.\), *Proceedings of the 3rd fire in eastern oak forests conference: 2008 May 20-22*; Carbondale, IL. USDA Forest Service General Technical Report NRS-P-46.](#)

[Prasad, A.M., Gardiner, J.D., Iverson, L.R., Matthews, S.N. and Peters, M., 2013. Exploring tree species colonization potentials using a spatially explicit simulation model: implications for four oaks under climate change. *Global change biology* 19: 2196-2208.](#)

[Yaussy, D.A., Nowacki, G.J., Schuler, T.M., Dey, D.C. and DeGayner, E.J., 2008. Developing a unified monitoring and reporting system: a key to successful restoration of mixed-oak forests throughout the central hardwood region. P. 281-286 in *USDS Forest Service General Technical Report PNW-733*.](#)